PERMIT BOOK

STATE OF MISSOURI

DEPARTMENT OF NATURAL RESOURCES

MISSOURI AIR CONSERVATION COMMISSION

PERMIT TO CONSTRUCT

Under the authority of RSMo 643 and the Federal Clean Air Act the applicant is authorized to construct the air contaminant source(s) described below, in accordance with the laws, rules and conditions as set forth herein.

Permit Number: 062006-012 Project Number: 2006-05-019 PORT-0564

Owner: Lake Asphalt Paving & Construction, LLC

Owner's Address: PO Box 1437, Osage Beach, MO 65065

Installation Name: Lake Asphalt Paving & Construction LLC - Portable Allmix Asphalt Plant

Installation Address: Trickum Road, Houstonia, MO 65333

Location Information: Pettis County, S32, T48N, R21W

Application for Authority to Construct was made for:

The installation of a new portable asphalt plant. Asphalt is produced through a Drum Mix Dryer. The portable asphalt plant has a maximum hourly design rate (MHDR) of 350 tons per hour (tph). This review was conducted in accordance with Section (6), Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required.*

☐ Standard Conditions (on reverse) are applicable to this permit.

☑ Standard Conditions (on reverse) and Special Conditions (listed as attachments starting on page 2) are applicable to this permit.

JUN 22 2006

EFFECTIVE DATE

DIRECTOR OR DESIGNEE
DEPARTMENT OF NATURAL RESOURCES

STANDARD CONDITIONS:

Permission to construct may be revoked if you fail to begin construction or modification within two years from the effective date of this permit. Permittee should notify the Air Pollution Control Program if construction or modification is not started within two years after the effective date of this permit, or if construction or modification is suspended for one year or more.

You will be in violation of 10 CSR 10-6.060 if you fail to adhere to the specifications and conditions listed in your application, this permit and the project review. Specifically, all air contaminant control devices shall be operated and maintained as specified in the application, associated plans and specifications.

You must notify the Air Pollution Control Program of the anticipated date of start up of this (these) air contaminant source(s). The information must be made available not more than 60 days but at least 30 days in advance of this date. Also, you must notify the Department of Natural Resources Regional Office responsible for the area within which you are located within 15 days after the actual start up of this (these) air contaminant source(s).

A copy of this permit and permit review shall be kept at the installation address and shall be made available to Department of Natural Resources' personnel upon request.

You may appeal this permit or any of the listed Special Conditions as provided in RSMo 643.075. If you choose to appeal, the Air Pollution Control Program must receive your written declaration within 30 days of receipt of this permit.

If you choose not to appeal, this certificate, the project review, your application and associated correspondence constitutes your permit to construct. The permit allows you to construct and operate your air contaminant source(s), but in no way relieves you of your obligation to comply with all applicable provisions of the Missouri Air Conservation Law, regulations of the Missouri Department of Natural Resources and other applicable federal, state and local laws and ordinances.

The Department of Natural Resources has established the Outreach and Assistance Center to help in completing future applications or fielding complaints about the permitting process. You are invited to contact them at 1-800-361-4827 or (573) 526-6627, or in writing addressed to Outreach and Assistance Center, P.O. Box 176, Jefferson City, MO 65102-0176.

The Air Pollution Control Program invites your questions regarding this air pollution permit. Please contact the Construction Permit Unit at (573) 751-4817. If you prefer to write, please address your correspondence to the Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102-0176, attention Construction Permit Unit.

2006-05-019
PORT-0564

Lake Asphalt Paving & Construction, LLC

PO Box 1437, Osage Beach, MO 65065

Lake Asphalt Paving & Construction LLC - Portable Allmix Asphalt Plant

Trickum Road, Houstonia, MO 65333

Pettis County, S32, T48N, R21W

The installation of a new portable asphalt plant. Asphalt is produced through a Drum Mix Dryer. The portable asphalt plant has a maximum hourly design rate (MHDR) of 350 tons per hour (tph). This review was conducted in accordance with Section (6), Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*.

GENERAL SPECIAL CONDITIONS:
The permittee is authorized to construct and operate subject to the following special conditions:

The special conditions listed in this permit were included based on the authority granted the Missouri Air Pollution Control Program by the Missouri Air Conservation Law (specifically 643.075); by the Missouri Rules listed in Title 10, Division 10 of the Codes of State Regulations (specifically 10 CSR 10-6.060); by 10 CSR 10-6.060 paragraph (12)(A)10. "Conditions required by permitting authority"; by 10 CSR 10-6.010 "Ambient Air Quality Standards" and 10 CSR 10-6.060 subsections (5)(D) and (6)(A); and by control measures requested by the applicant, in their permit application, to reduce the amount of air pollutants being emitted, in accordance with 10 CSR 10-6.060 paragraph (6)(E)3. Furthermore, one or more of the Subparts of 40 CFR Part 60, New Source Performance Standards (NSPS), applies to this installation.

1. Portable Equipment Identification Requirement
   To assure that each component is properly identified as being a part of this portable asphalt plant, (PORT-0564) Lake Asphalt Paving & Construction LLC - Portable Allmix Asphalt Plant shall provide and maintain suitable, easily read permanent markings on each component of the plant. These markings shall be the equipment's serial number or a company assigned identification number that uniquely identifies the individual component. These identification numbers must be submitted to the Air Pollution Control Program no later than 15 days after start-up of the portable asphalt plant.

2. Relocation of Portable Asphalt Plant
   A. If this portable asphalt plant moves from the initial site reviewed in this permit (Mid-Missouri Limestone - Houstonia, Site ID No: 159-0038), then the portable asphalt plant shall not be operated at any site location longer than 24 consecutive months without an intervening relocation.
   B. A complete "Portable Source Relocation Request" application must be submitted to the Air Pollution Control Program prior to any relocation of this portable asphalt plant.
      1.) If the portable asphalt plant is moving to a site previously permitted, and if there are no other new plants at the site, then the application must be received by the Air Pollution Control Program at least seven (7) days prior to the relocation.
      2.) If the portable asphalt plant is moving to a new site, or if there are other plants or equipment at the site that have not been evaluated for concurrent operation, then the application must be received by the Air Pollution Control Program at least twenty-one (21) days prior to the relocation. The application must include written notification of any concurrently operating plants.

3. Operating Permit Applicability
   If this portable asphalt plant does not move from the initial site (Mid-Missouri Limestone - Houstonia, Site ID No: 159-0038) within 24 consecutive months, then Lake Asphalt Paving & Construction LLC - Portable Allmix Asphalt Plant shall submit an operating permit application. The Air Pollution Control Program must receive this application no later than 30 days after the exceedance of the 24 months.

4. Record Keeping Requirement
   The operator(s) shall maintain all records required by this permit for not less than five (5) years and shall make them available immediately to any Missouri Department of Natural Resources' personnel upon request.

5. Power Generation
   Two diesel engines with a combined (i.e., total) MHDR of 0.0092 Mgal/h power plant equipment and shall not be run unless the rest of the plant is running.

SITE-SPECIFIC SPECIAL CONDITIONS:
The permittee is authorized to construct and operate subject to the following special conditions:

Site ID No.: 159-0038
Site Name: Mid-Missouri Limestone - Houstonia
Site Address: Trickum Road, Houstonia, MO 65333
Site County: Pettis County, S32, T48N, R21W

1. Best Management Practices
   Lake Asphalt Paving & Construction LLC - Portable Allmix Asphalt Plant shall control fugitive emissions from all of the haul roads and stockpiles at this site by performing *Best Management Practices*, which include the usage of paving, chemical dust suppressants, or documented watering. These practices are defined in Attachment AA.

2. National Ambient Air Quality Standards (NAAQS) Limitation for Particulate Matter Less Than Ten Microns in Diameter (PM_{10})
   A. The operator(s) for Lake Asphalt Paving & Construction LLC - Portable Allmix Asphalt Plant's portable asphalt plant (PORT-0564) shall ensure, while operating at this site, that the ambient impact of PM_{10} at or beyond the nearest property boundary does not exceed 150 $\mu g/m^3$ in any 24-hour period, in accordance with the Federal NAAQS requirements (40 CFR 50.6).
   B. To demonstrate compliance, the operator(s) shall maintain a daily record of material processed. Attachment A, *Daily Ambient PM_{10} Impact Tracking Record,* or other equivalent form(s), will be used for this purpose.

3. Annual Emission Limit of Particulate Matter Less Than Ten Microns in Diameter (PM_{10})
   A. The operator(s) shall ensure that Lake Asphalt Paving & Construction LLC - Portable Allmix Asphalt Plant's portable asphalt plant emits less than 50 tons of PM_{10} into the atmosphere in any 12-month period.
   B. To demonstrate compliance, the operator(s) shall maintain a daily record of material processed and PM_{10}. Attachment B, *Monthly PM_{10} Emissions Tracking Record,* or other equivalent form(s), will be used for this purpose.

4. Moisture Content Testing of Storage Piles Requirement
   A. The moisture content of the stockpiled rock will reduce particulate emissions. Lake Asphalt Paving & Construction LLC - Portable Allmix Asphalt Plant claimed the moisture content of the stored rock to be greater than or equal to 1.5 wt.%, which shall be verified by testing.
   B. Testing shall be conducted according to approved methods, such as those prescribed by the *American Society for Testing Materials (ASTM D-2216 or C-566)*, EPA AP-42 Appendix C.2, or other method(s) approved by the Director.
   C. The operator may obtain a copy of the test results of the inherent moisture content from the supplier(s) of the aggregate. Otherwise, the operator shall obtain test samples from each shipment of untested aggregate. The written analytical report shall include the raw data and moisture content (wt.%) of each sample, the test date, and the original signature of the individual performing the test. Within 30 days of completion of the required tests, the report shall be filed on site or at Lake Asphalt Paving & Construction LLC's main office.
   D. If the moisture content result of the first test is less than 1.5 wt.%, a second test must be performed within 30 days. If the result of the second test is less than 1.5 wt.%, Lake Asphalt Paving & Construction LLC - Portable Allmix Asphalt Plant shall apply for a new construction permit to account for the revised information or install wet spray devices on the affected units.

5. Baghouse(s) Control System Requirements
   A. Lake Asphalt Paving & Construction LLC - Portable Allmix Asphalt Plant shall install and operate baghouse(s) to restrict the emission of particulate matter. The baghouse(s) must be used whenever these units are in operation. The baghouse(s) shall be installed on the following units: Drum Dryer.
   B. Lake Asphalt Paving & Construction LLC - Portable Allmix Asphalt Plant shall install instruments to monitor the operating pressure drop across the baghouse. All instruments and control equipment shall be calibrated, maintained and operated according to the manufacturer's preventive maintenance

SITE-SPECIFIC SPECIAL CONDITIONS:
The permittee is authorized to construct and operate subject to the following special conditions:

recommendations. The operator(s) shall check and record the pressure drop across the baghouse filter once per operating day during silo loading. The baghouse operating pressure drop according to manufacturer's specifications.

C. The operator(s) shall conduct and document a quarterly inspection and maintenance of the baghouse for structural component failures, for leaks and wear, and for the cleaning sequence of the baghouse. Replacement bags shall be kept on hand at all times to replace defective bags (The bags shall be made of fibers appropriate for the operating conditions expected to occur). All inspections, corrective actions, and instrument calibrations shall be recorded.

6. Performance Testing for New Source Performance Standards (NSPS)
   A. Lake Asphalt Paving & Construction LLC - Portable Allmix Asphalt Plant shall submit the enclosed testing plan to the Enforcement section of the Air Pollution Control Program for all equipment applicable to NSPS Subpart "I". Lake Asphalt Paving & Construction LLC - Portable Allmix Asphalt Plant shall contact the Enforcement section to obtain all requirements for testing, and the plan must be submitted to the Enforcement section at least 30 days prior to the proposed test date.
   B. Testing must be performed no later than 60 days after achieving the maximum production rate of the process, and in any case no later than 180 days after initial startup. Testing shall be performed at no less than 90% of the maximum production rate. The performance test results shall be submitted to the Enforcement section no later than 30 days after completion of any required testing.

7. Prohibition against Concurrent Operations without Further Review
   The portable asphalt plant (PORT-0564) is prohibited from operating whenever any other plant(s) are located at this site.

8. Restriction on Minimum Distance to Nearest Property Boundary
   The primary emission point of the portable asphalt plant, the drum mix dryer, shall be located at least 50 feet from the nearest property boundary whenever it is operating at this site.

9. Record Keeping Requirement
   The operator(s) shall maintain all records required by this permit for not less than five (5) years and shall make them available to any Missouri Department of Natural Resources' personnel upon request.

10. Reporting Requirement
    The operator(s) shall report to the Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten (10) days after any exceedances of the limitations imposed by this permit.

TECHNICAL REVIEW OF APPLICATION FOR AUTHORITY TO CONSTRUCT

PROJECT DESCRIPTION

Hot Mix Asphalt (HMA) is composed of non-metallic aggregate, sand, mineral filler and other materials with liquid asphaltic cement. These materials are mixed and heated/dried in the drum dryer. Processed HMA is delivered as sellable product. The emission points are listed in the attached spreadsheet summary. This installation is classified under the List of Named Installations [10 CSR 10-6.020(3)(B), Table 2, Item 27]. The installation is located in Pettis County, an attainment area for all criteria air pollutants.

This plant uses BMPs to control fugitive emissions from all haul roads and stockpile vehicular activity areas. Mid-Missouri Limestone is at the initial site and this plant will be locked down and therefore inaccessible while the portable asphalt plant is located on this site. The HMA plant has an asphalt heater that may be run at any time. Its emissions are considered background for the HMA plant. Two diesel engines with a combined (i.e., total) MHDR of 0.0092 Mgal/h power plant equipment and shall not be run unless the rest of the plant is running.

EMISSIONS EVALUATION

The potential emissions were calculated from the maximum hourly design rate (MHDR) of the equipment, appropriate emission factors, control device efficiencies, and the limiting operating hours at MHDR. The sources of the emission factors and control efficiencies are listed in the section "Permit Documents". Based on the conditioned potential emissions, the operation is considered a minor source under 10 CSR 10-6.060 section (6).

The asphalt plant has an annual emission limit of less than 50 tons of PM_{10} in any 12-month period. A composite PM_{10} emission factor was developed for the asphalt plant. The composite emission factor is incorporated into the monthly record keeping table, Attachment B. A background level of PM_{10} from the asphalt heater is also included in this attachment. If the conditioned potential emissions of PM_{10} were 50 tons per year or greater, then the owner would be required to submit dispersion modeling results.

Table 1: Emissions Summary (tons per year)

Air Pollutant	Regulatory *De Minimis* Levels	Potential Emissions of the Application	**New Installation Conditioned Potential	Emission Factor (lb/ton)
PM_{10}	15.0	140.11	<50	0.0914
SOx	40.0	21.95	8.76	N/A
NOx	40.0	102.99	37.00	N/A
VOC	40.0	49.53	17.67	N/A
CO	100.0	204.25	72.93	N/A
HAPs	10.0/25.0	6.02	2.15	N/A

Note: N/A = Not Applicable

** Conditioned potential based on 50-tons-of-PM_{10}-per-year limit. Other pollutants proportionately reduced.

AMBIENT AIR QUALITY IMPACT ANALYSIS

Screening tools were used to evaluate the ambient air impact of the hourly emissions from this operation. The ambient impact was evaluated at a distance of 50 feet to the nearest property boundary. The ambient impact at this site shall not exceed the National Ambient Air Quality Standard (NAAQS) of 150 $\mu g/m^3$ of PM_{10} at or beyond the nearest property boundary in any single 24-hour period. The screening tools were used to develop an ambient impact factor for the portable asphalt plant. This ambient impact factor is incorporated into the daily record keeping table, Attachment A. An ambient background level of PM_{10} from the asphalt heater is also included in this attachment.

For sources agreeing to use Best Management Practices (BMPs), as defined in Attachment AA, haul roads and stockpiles are not modeled with screening tools. Instead, they are addressed as a background level of 20 $\mu g/m^3$ of PM_{10}. To ensure conformity with NAAQS, the remaining process emissions are limited to an impact of less than 130 $\mu g/m^3$ of PM_{10} at or beyond the nearest property boundary.

Table 2: Ambient Air Quality Impact Analysis of PM_{10}, 24-Hour Averaging Time

Operation	Ambient Impact Factor ($\mu g/m^3$ton)	Modeled Impact ($\mu g/m^3$)	*Background ($\mu g/m^3$)	NAAQS ($\mu g/m^3$)	Daily Production Limit (tons)
1. Solitary	0.0318	130.00	26.19	150.00	3892

* Background PM_{10} level of 20.00 $\mu g/m^3$ from haul roads and stockpiles and 6.19 $\mu g/m^3$ from the asphalt heater.

APPLICABLE REQUIREMENTS

The owner is subject to compliance with the following applicable requirements. The Missouri Air Conservation Laws and Regulations should be consulted for specific record keeping, monitoring, and reporting requirements.

- *Submission of Emission Data, Emission Fees and Process Information,* 10 CSR 10-6.110
- *Operating Permits*, 10 CSR 10-6.065
- If this portable asphalt plant remains at the initial site reviewed in this permit longer than 24 consecutive months, then the owner shall submit an Operating Permit Application. The Air Pollution Control Program must receive this application no later than 30 days after the exceedance of 24 months.
- *Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin*, 10 CSR 10-6.170
- *Restriction of Emission of Visible Air Contaminants*, 10 CSR 10-6.220
- *Restriction of Emission of Odors*, 10 CSR 10-3.090
- *Restriction of Emission of Particulate Matter From Industrial Processes*, 10 CSR 10-6.400
- *Restriction of Emission of Sulfur Compounds*, 10 CSR 10-6.260
- 40 CFR Part 60 Subpart "I", *Standards of Performance for Hot Mix Asphalt Plants*, of the New Source Performance Standards (NSPS)
- The National Emission Standards for Hazardous Air Pollutants (NESHAPs) and the currently promulgated Maximum Achievable Control Technology (MACT) regulations do not apply to the proposed equipment.

STAFF RECOMMENDATION

On the basis of this review conducted in accordance with Section (6), Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*, I recommend this permit be granted with special conditions.

Jeannie Kozak
Environmental Engineer

Date

PERMIT DOCUMENTS

The following documents are incorporated by reference into this permit:

- The Application for Authority to Construct, designating Lake Asphalt Paving & Construction, LLC as the owner and operator of the installation.
- Environmental Protection Agency (EPA) AP-42, *Compilation of Air Pollutant Emission Factors; Volume I, Stationary Point and Area Sources, Fifth Edition.*
- Noyes Data Corp., Orlemann, et al.1983, *Fugitive Dust Control*.
- EPA Factor Information Retrieval (FIRE) Version 6.21.
- Spreadsheet calculations of potential-to-emit and ambient impact.
- Kansas City Regional Office Site Survey.
- Best Management Practices

Attachment A: Daily Ambient PM_{10} Impact Tracking Record
Lake Asphalt Paving & Construction LLC - Portable Allmix Asphalt Plant, PORT-0564 – Portable Asphalt Plant

Project Number: 2006-05-019
County, CSTR: Pettis County (S32, T48N, R21W)
Primary Unit Size: 350 tph
Distance to Nearest Property Boundary: 50 feet

This sheet covers the period from _____ to _____ (Month, Day, Year) *(Copy this sheet as needed.)*

Date	Lake Asphalt Paving & Construction LLC - Portable Allmix Asphalt Plant PORT-0564 Project # 2006-05-019			[2]Back-ground PM_{10} Level ($\mu g/m^3$)	[3]TOTAL PM_{10} Level ($\mu g/m^3$)
	Daily Production (tons)	Ambient Impact Factor ($\mu g/m^3$ton)	[1]Daily PM_{10} Impact ($\mu g/m^3$)		
Example	3850	0.0318	122.43	26.19	148.62
		0.0318		26.19	
		0.0318		26.19	
		0.0318		26.19	
		0.0318		26.19	
		0.0318		26.19	
		0.0318		26.19	
		0.0318		26.19	
		0.0318		26.19	
		0.0318		26.19	
		0.0318		26.19	
		0.0318		26.19	
		0.0318		26.19	
		0.0318		26.19	
		0.0318		26.19	
		0.0318		26.19	
		0.0318		26.19	
		0.0318		26.19	
		0.0318		26.19	

Note 1: The Daily PM_{10} Impact ($\mu g/m^3$) for each plant is calculated by multiplying the Daily Production (tons) by the matching Ambient Impact Factor.
Note 2: Background PM_{10} Level ($\mu g/m^3$) is from Haul Roads, Stockpiles and the asphalt heater.
Note 3: The TOTAL PM_{10} Level ($\mu g/m^3$) is calculated by summing the Daily PM_{10} Ambient Impact(s) and the Background PM_{10} Level. A TOTAL PM_{10} Level of less than 150 $\mu g/m^3$ in any 24-hour period indicates compliance.

Attachment B: Monthly PM_{10} Emissions Tracking Record
Lake Asphalt Paving & Construction LLC - Portable Allmix Asphalt Plant, PORT-0564 – Portable Asphalt Plant

Project Number: 2006-05-019
County, CSTR: Pettis County (S32, T48N, R21W)
Primary Unit Size: 350 tph
Distance to Nearest Property Boundary: 50 feet

This sheet covers the period from _____ to _____ (Month, Day, Year)
(Copy this sheet as needed.)

Month	Monthly Production (tons)	Composite PM_{10} Emission Factor (lbs/ton)	[1]Monthly PM_{10} Emissions (lbs)	[2]Monthly PM_{10} Emissions (tons)	[3]12-Month PM_{10} Emissions (tons/year)	[4]Background (tons/year)	[5]TOTAL 12-Month PM_{10} Emissions (tons/year)
Example	100,000	0.0302	3020.0	1.51	44.61	0.04	44.65
		0.0302				0.04	
		0.0302				0.04	
		0.0302				0.04	
		0.0302				0.04	
		0.0302				0.04	
		0.0302				0.04	
		0.0302				0.04	
		0.0302				0.04	
		0.0302				0.04	
		0.0302				0.04	
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		0.0302				0.04	
		0.0302				0.04	
		0.0302				0.04	
		0.0302				0.04	
		0.0302				0.04	
		0.0302				0.04	

Note 1: The Monthly Emissions (lbs) are calculated by multiplying the Monthly Production (tons) by the Composite Emission Factor (lbs/ton).
Note 2: The Monthly Emissions (tons) are calculated by dividing the Monthly Emissions (lbs) by 2,000.
Note 3: The 12-Month Emissions (tons/year) are a rolling total calculated by adding the Month's Emissions (tons) to the Monthly Emissions (tons) of the previous eleven (11) months.
Note 4: The Background of 0.04 tons per year is from the asphalt heater.
Note 5: The TOTAL 12-Month Emissions (tons/year) are calculated by adding the Background (tons/year) to the 12-Month Emissions (tons/year). A total of less than **50** tons in any consecutive 12-month period indicates compliance.

Attachment AA: Best Management Practices (BMPs)- Construction Industry Fugitive Emissions

Construction Industry Sites covered by the Interim Relief Policy shall maintain Best Management Control Practices (BMPs) for fugitive emission areas at their installations when in operation. Options for BMPs are at least one of the following:

For Haul Roads:

1. Pavement of Road Surfaces –
   - A. The operator(s) may pave all or any portion of the haul roads with materials such as asphalt, concrete, and/or other material(s) after receiving approval from the program. The pavement will be applied in accordance with industry standards for such pavement so as to achieve "Control of Fugitive Emissions[1]" while the plant is operating.
   - B. Maintenance and/or repair of the road surface will be conducted as necessary to ensure that the physical integrity of the pavement is adequate to achieve control of fugitive emissions from these areas while the plant is operating.
   - C. The operator(s) shall periodically water, wash and/or otherwise clean all of the paved portions of the haul road(s) as necessary to achieve control of fugitive emissions from these areas while the plant is operating.

2. Usage of Chemical Dust Suppressants –
   - A. The operator(s) shall apply a chemical dust suppressant (such as magnesium chloride, calcium chloride, lignosulfonates, etc.) to all the unpaved portions of the haul roads. The suppressant will be applied in accordance with the manufacturer's suggested application rate (if available) and re-applied as necessary to achieve control of fugitive emissions from these areas while the plant is operating.
   - B. The quantities of the chemical dust suppressant shall be applied, re-applied and/or maintained sufficient to achieve control of fugitive emissions from these areas while the plant is operating.
   - C. The operator(s) shall record the time, date and the amount of material applied for each application of the chemical dust suppressant agent on the above areas. The operator(s) shall keep these records with the plant for not less than five (5) years, and the operator(s) shall make these records available to Department of Natural Resources personnel upon request.

3. Usage of Documented Watering –
   - A. The operator(s) shall control the fugitive emissions from all the unpaved portions of the haul roads at the installation by consistently and correctly using the application of a water spray. Documented watering will be applied in accordance with a recommended application rate of 100 gallons per day per 1,000 square feet of unpaved/untreated surface area of haul roads as necessary to achieve control of fugitive emissions from these areas while the plant is operating. For example, the operator(s) shall calculate the total square feet of unpaved vehicle activity area requiring control on any particular day, divide that product by 1,000, and multiply the quotient by 100 gallons for that day.
   - B. The operator(s) shall maintain a log that documents daily water applications. This log shall include, but is not limited to, date and volumes (e.g., number of tanker applications and/or total gallons used) of water application. The log shall also record rationale for not applying water on day(s) the plant is in operation (e.g., meteorological situations, precipitation events, freezing, etc.)
   - C. Meteorological precipitation of any kind, (e.g. a quarter inch or more rainfall, sleet, snow, and/or freeze thaw conditions) which is sufficient in the amount or condition to achieve control of fugitive emissions from these areas while the plant is operating.
   - D. Watering may also be suspended when the ground is frozen, during periods of freezing conditions when watering would be inadvisable for traffic safety reasons, or when there will be no traffic on the roads. The operator(s) shall record a brief description of such events in the same log as the documented watering.
   - E. The operator(s) shall record the date and the amount of water applied for each application on the above areas. The operator(s) shall keep these records with the plant for not less than five (5) years, and the operator(s) shall make these records available to Department of Natural Resources personnel upon request.

[1] For purposes of this document, Control of Fugitive Emissions means to control particulate matter that is not collected by a capture system and visible emissions to the extent necessary to prevent violations of the air pollution law or regulation. (Note: control of visible emission is not the only factor to consider in protection of ambient air quality.)

For Vehicle Activity Areas around Open Storage Piles:

1. Pavement of Stockpile Vehicle Activity Surfaces –
   - A. The operator(s) may pave all or any portion of the vehicle activity areas around the storage piles with materials such as asphalt, concrete, and/or other material(s) after receiving approval from the program. The pavement will be applied in accordance with industry standards for such pavement so as to achieve control of fugitive emissions while the plant is operating.
   - B. Maintenance and/or repair of the road surface will be conducted as necessary to ensure that the physical integrity of the pavement is adequate to achieve control of fugitive emissions from these areas while the plant is operating.
   - C. The operator(s) shall periodically water, wash and/or otherwise clean all of the paved portions of the vehicle activity areas around the storage piles as necessary to achieve control of fugitive emissions from these areas while the plant is operating.

2. Usage of Chemical Dust Suppressants –
   - A. The operator(s) shall apply a chemical dust suppressant (such as magnesium chloride, calcium chloride, lignosulfonates, etc.) to all the vehicle activity areas around the open storage piles. The suppressant will be applied in accordance with the manufacturer's suggested application rate (if available) and re-applied as necessary to achieve control of fugitive emissions from these areas while the plant is operating.
   - B. The quantities of the chemical dust suppressant shall be applied, re-applied and/or maintained sufficient to achieve control of fugitive emissions from these areas while the plant is operating.
   - C. The operator(s) shall record the time, date and the amount of material applied for each application of the chemical dust suppressant agent on the above areas. The operator(s) shall keep these records with the plant for not less than five (5) years, and the operator(s) shall make these records available to Department of Natural Resources personnel upon request.

3. Usage of Documented Watering –
   - A. The operator(s) shall control the fugitive emissions from all the vehicle activity areas around the storage piles at the installation by consistently and correctly using the application of a water spray. Documented watering will be applied in accordance with a recommended application rate of 100 gallons per day per 1,000 square feet of unpaved/untreated surface area of vehicle activity areas around the storage piles as necessary to achieve control of fugitive emissions from these areas while the plant is operating. (Refer to example for documented watering of haul roads.)
   - B. The operator(s) shall maintain a log that documents daily water applications. This log shall include, but is not limited to, date and volumes (e.g., number of tanker applications and/or total gallons used) of water application. The log shall also record rationale for not applying water on day(s) the plant is in operations (e.g., meteorological situations, precipitation events, freezing, etc.)
   - C. Meteorological precipitation of any kind, (e.g. a quarter inch or more rainfall, sleet, snow, and/or freeze thaw conditions) which is sufficient in the amount or condition to achieve control of fugitive emissions from these areas while the plant is operating.
   - D. Watering may also be suspended when the ground is frozen, during periods of freezing conditions when watering would be inadvisable for traffic safety reasons, or when there will be no traffic on the roads. The operator(s) shall record a brief description of such events in the same log as the documented watering.
   - E. The operator(s) shall record the date and the amount of water applied for each application on the above areas. The operator(s) shall keep these records with the plant for not less than five (5) years, and the operator(s) shall make these records available to Department of Natural Resources personnel upon request.

Mr. Donnie Mantle
Owner
Lake Asphalt Paving & Construction, LLC
PO Box 1437
Osage Beach, MO 65065

RE: New Source Review Permit - Project Number: 2006-05-019

Dear Mr. Mantle:

Enclosed with this letter is your New Source Review permit. Please review your permit carefully and note the special conditions, if any, and the requirements in your permit.

Operation in accordance with the conditions and requirements in your permit and with the New Source Review application submitted for project 2006-05-019 is necessary for continued compliance.

The section of the permit entitled "Technical Review of Application for Authority to Construct" should not be separated from the main portion of your permit. The entire permit must be retained in your files. The reverse side of your permit certificate has important information concerning standard permit conditions and your rights and obligations under the laws and regulations of the State of Missouri.

If you have any questions regarding this permit, please do not hesitate to contact me at (573) 751-4817, or you may write to the Department of Natural Resources Air Pollution Control Program, P.O. Box 176, Jefferson City, Missouri 65102. Thank you for your attention to this matter.

Sincerely,

AIR POLLUTION CONTROL PROGRAM

Kendall Hale, P.E.
New Source Review Unit Chief

KH:jkl

Enclosures

c: Kansas City Regional Office
PAMS File: 2006-05-019
Permit Number: